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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,148	12/15/2003	Naoki Kitagaki	118100	9318
25944 OLIFF & BER	7590 05/10/20 PIDGE PLC	07	EXAMINER	
P.O. BOX 1993	28		NGUYEN, LINH THI	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
			2627	
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			. 05/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summany	10/734,148	KITAGAKI ET AL.			
Office Action Summary	Examiner	Art Unit			
71 MAN INO DATE (11)	Linh T. Nguyen	2627			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with ti	ne correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period versilize to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply to will apply and will expire SIX (6) MONTHS, cause the application to become ABAND	ION. be timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 20 Fe	Responsive to communication(s) filed on <u>20 February 2007</u> .				
,—	☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1,2 and 5-26</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 5-26</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Of	fice Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		9(a)-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
·					
AM-14-1		·			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/M	ail Date			
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Inform 6) Other:	nal Patent Application			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5, 6 and 13-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Kurebayashi et al (US Publication Number 20040145993).

In regards to claims 1, 15, and 25, Kurebayashi et al discloses an information-recording method for recording information on an information-recording medium, the information-recording method comprising: moving a light beam at a selected linear velocity relative to the information-recording medium (Fig. 3); controlling the light beam to generate a multi-pulse (Fig. 3) having at least three power levels of a first power level Ph (Fig. 3, Pbw), a second power level P1 which is lower than the first power level (Fig. 3, Pb1), and a third power level Pm (Pb3) which is intermediate there between (Fig. 3), the multi-pulse being repeatedly modulated between the first power level Ph and the third power level Pm (Fig. 3), the second power level P1 being a crystallization level (Paragraph [0034], lines 12-17); adjusting the third power level Pm in response to the selected linear velocity (Fig. 3, speed increase the Pb1 increases to Pb3); and recording the information by irradiating the information-recording medium with the controlled light

beam including the adjusted third power level to change a state of an irradiated portion of the information-recording medium (Column 4).

In regards to claim 2, Kurebayashi et al discloses the information-recording method according to claim 1, wherein the third power level Pm (Pb3) is adjusted so that the third power level Pm is increased in proportion to the linear velocity (Fig. 4).

In regards to claims 5 and 26, Kurebayashi et al discloses the information-recording method according to claim 1, wherein a ratio (Pm-P1)/(Ph-P1) of a difference between the third power level Pm and the second power level P1 with respect to a difference between the first power level Ph and the second power level P1 is adjusted in response to the linear velocity (Fig. 4, equation below).

In regards to claims 6, 16, 17, 18, 19, 20 and 23, Kurebayashi et al discloses the information-recording method according to claim 5, wherein the ratio (Pm-P1)/(Ph-P1) is adjusted so that the ratio (Pm-P1)/(Ph-P1) is increased in proportion to the linear velocity (Fig. 4).

In regards to claims 21 and 22, Kurebayashi et al discloses the information-recording medium, wherein the management information includes values of the first power level PH, the second power levelP1, and the third power level Pm at a plurality of recording speeds respectively (Fig. 3).

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In regards to claims 13 and 24, Kurebayashi et al discloses the information-recording method according to claim 1, further comprising reading the selected linear velocity from the information-recording medium before recording the information, wherein the information is recorded with the CLV system (Paragraph [0028]).

In regards to claim 14, Kurebayashi et al discloses the information-recording method according to claim 1, wherein the information is recorded with the CAV system, and the selected linear velocity differs depending on a position on the information-recording medium in which the information is recorded (Paragraph [0028]).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurebayashi et al in view of Nishiuchi et al (US Patent number 5291470).

In regards to claims 7 and 8, Kurebayahsi et al does not but Nishiuchi discloses the information-recording method wherein a pulse width of a leading pulse or a tail pulse of the multi-pulse is adjusted in response to the third power level Pm (Fig. 12 and 18).

At the time of the invention it would have been obvious to a person of ordinary skill in

the art to modify the information-recording method of Kurebayashi et al to have pulse width of leading or tail pulse to vary depending on the erase power as suggested by Nishiuchi et al. The motivation for doing so would have to create less jitter.

In regards to claims 9 and 10, Kurebayahsi et al does not but Nishiuchi et al discloses the information-recording method wherein a pulse width of a leading pulse or a tail pulse of the multi-pulse is adjusted in response to a ratio Pm/Ph so that the pulse width is increase in proportion to in response to the third power level Pm (Fig. 12 and 18; Column 12, lines 58-61). The motivation is the same as claim 7 above.

In regards to claim 11 and 12, Kurebayashi et al discloses the pulse ratio (Pm-P1)/(Ph-P1) (Fig. 4). Kurebayashi et al does not but Nishiuschi et al discloses the method of varying the leading or tail pulse (Fig. 12 and 18). The motivation is the same as claim 7 above.

Response to Arguments

Applicant's arguments with respect to claims 1, 15, and 25 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh T. Nguyen whose telephone number is 571-272-5513. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LN May 1, 2007

> WAYNE/YOUNG SUPERVISORY PATENT EXAMI